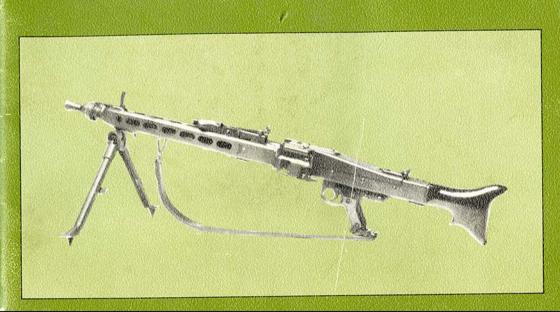
Machine Gun

Operator's Manual

MG3

Cal. 7.62 mm x 51



Digitized by:



Machine Gun

Operator's Manual

MG3

Cal. 7.62 mm x 51

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1. Important Information

1.1 Every MG must be regarded as loaded until the gunner has convinced himself that no round has been left in the chamber of the barrel.

For this purpose:

Cock bolt and push safety catch into "S" position (see also 5.2).

Open cover, and turn feed tray upwards.

Ensure that barrel is clear (see also 5.2).

- 1.2 If round fails to ignite in barrel which is fired hot, only cock bolt after time allowed for cook-off has elapsed (approx. 5 minutes).
- **1.3** Change barrel after approx. 150 rounds (see also 5.3).
- 1.4 Releasing the bolt with no barrel in the weapon is prohibited.
- 1.5 Clean barrel before each firing.
- 1.6 Make it a rule thoroughly to clean the weapon after each use.

2. Technical Data

2.1 General

7.62 mm x 51 Calibre Recoil loader Weapon System with moving barrel Ammunition feed from L/H side 820 m/s Muzzle velocity Rate of fire from 1,000 to 1,300 rds/min **Bolt locking** locking roll system burst and sustained fire Types of fire Muzzle energy 3.200 Nm Sighting system

open system with front and back sight, adjustable from 200 m up to 1,200 m in 100 m increments AA sight for air targets

at speeds from 100 m/s up to 250 m/s c range approx 4,000 m

Max. range approx. 4,000 m combating range approx. 1,200 m

2.2 Dimensions

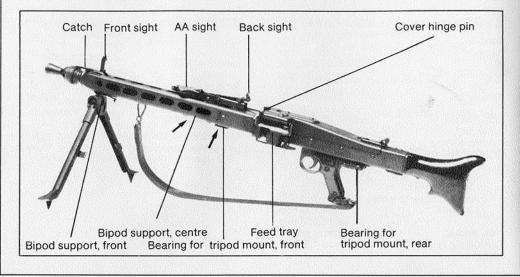
Length of MG with butt
Width of MG
Height of MG
with sights up
Type of twist
Firing height from bipod

1,225 mm
130 mm
215 mm
constant, R/H
300 mm

2.3 Weights

MG with bipod and sling
MG without bipod and sling
11.9 kg
10.0 kg

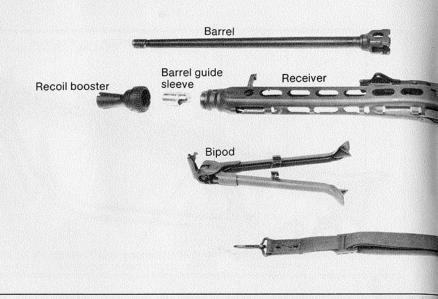
3. Overall view

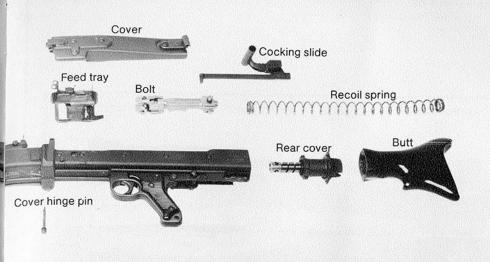




4. Weapon, dismantled

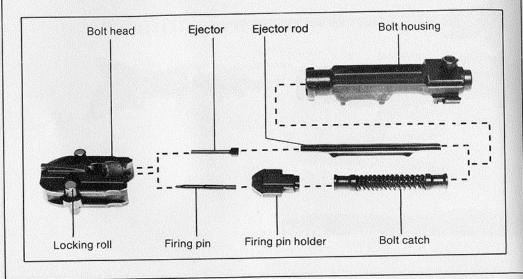
4.1 Sub-Assemblies



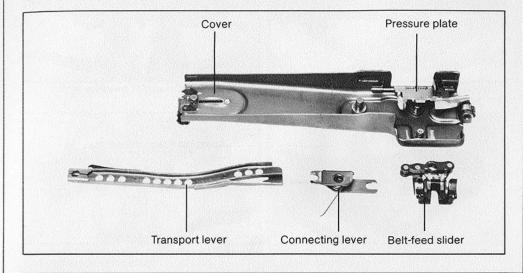


Sling

4.2 Bolt - Parts of

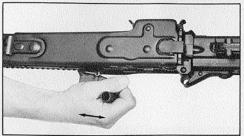


4.3 Cover - Parts of



5. Handling and Operation

5.1 Ensuring Readiness for Firing



Cock bolt (Retract cocking slide and push forward)



Push safety catch into "S" position



Load belt



Move safety catch into "F" position

5.2 Cancelling Readiness for Firing



Push safety catch into "S" position



Open cover. Remove belt.



Turn feed tray upwards. Ensure that barrel is clear.



Grip cocking slide, and allow bolt to advance slowly

5.3 Changing of Barrel



Cock bolt, and push safety catch into "S" position



Open barrel change flap. Remove barrel.

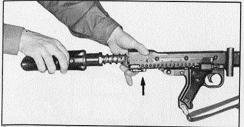


Insert spare barrel



Close barrel change flap

5.4 Changing of Bolt



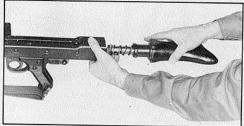
Open cover. Depress rear cover catch. Rotate butt with rear cover through 90° anti-clockwise, and take off together with recoil spring.



Pull cocking slide into rearmost position. Catch bolt. Return cocking slide into foremost position.



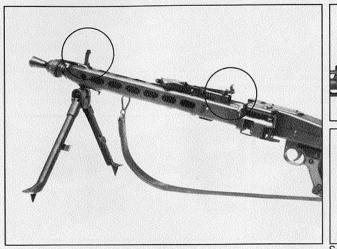
Insert spare bolt into slide rails and whilst doing this, actuate trigger.



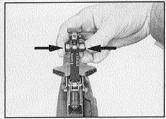
Refit butt with rear cover and recoil spring, and close cover.

5.5 Sighting Devices

5.5.1 Sight Adjustment for Combating Ground Targets

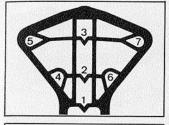


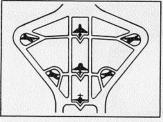




Setting of target range

5.5.2. Combating of Air Targets





Aiming Positions for Air Target Combating

Target speed

Target speed

Target Attitude

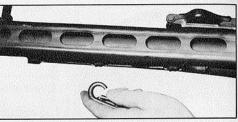
principal in	V = 100 m/s (Propeller Aircraft)	V = 250 m/s (Jet Aircraft)	
Direct approach	i.e. Notch for direct approach on lower sighting bar		
Crossover flight	2 i.e. Crossover notch of centre sighting bar	3 i.e. Crossover notch of upper sighting bar	
Passing flight. Target passing on L/H side of gun	4 i.e. L/H passing flight aiming mark of centre sight- ing bar	5 i.e. L/H passing flight aiming mark of upper sighting bar	
Passing flight. Target passing on R/H side of gun	6 i.e. R/H passing flight aiming mark of centre sight- ing bar	7 i.e. R/H passing flight aiming mark of upper sighting bar	

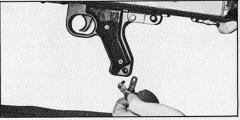
6. Dismantling into Sub-Assemblies

6.1 Bipod

6.2 Sling







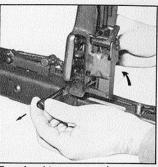
6.3 Feed Mechanism



Actuate cover catch

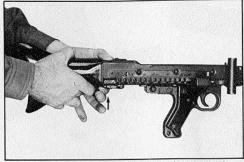


Open cover



Turn feed tray upwards, and pull out cover hinge pin

6.4 Butt with Rear Cover and Recoil Spring



Depress rear cover catch. Rotate butt together with rear cover through 90°, anti-clockwise.

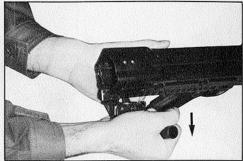


Remove butt together with rear cover and recoil spring (ATTENTION – Spring is still compressed!)

6.5 Bolt 6.6 Cocking Slide



Retract cocking slide, and catch bolt



Swing cocking handle forward until catch disengages. Then pull back cocking slide, tilt downwards, and remove.

6.7 Barrel



Unlatch barrel change flap

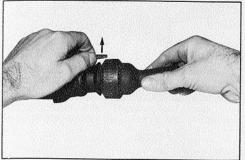


Open barrel change flap

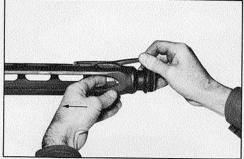


Remove barrel

6.8 Recoil Booster 6.9 Barrel Guide Sleeve

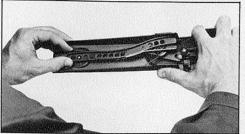


Lift up catch, and unscrew recoil booster

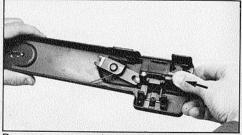


Lift up catch. Insert finger into barrel guide sleeve and, along large opening in housing, slide back as far as to barrel change flap, and remove barrel guide sleeve.

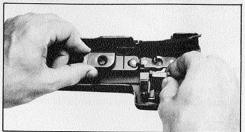
6.10 Cover - Parts of



Depress retaining spring of transport lever, lift up transport lever, and remove



Depress pressure plate, and push in direction of arrow



Lift out connecting lever together with belt feed slide

6.11 Butt with Rear Cover

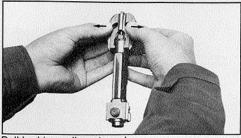


Depress thrust bolt, and rotate rear cover through 45°, either clockwise or anti-clockwise

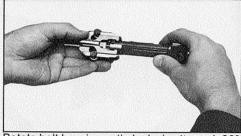


Take off rear cover

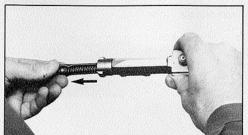
6.12 Bolt - Parts of



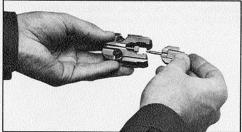
Pull locking rolls outwards



Rotate bolt housing anti-clockwise through 90°, and remove



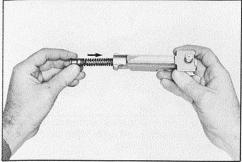
Remove ejector rod and bolt catch



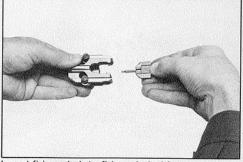
Remove from bolt head: firing pin holder, firing pin, and ejector

7. Reassembly of Sub-Assemblies

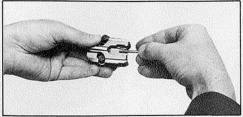
7.1 Bolt - Parts of



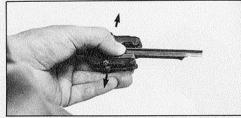
Place bolt catch in bolt housing



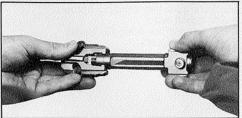
Insert firing pin into firing pin holder, and fit in bolt head.
The flat side of the firing pin holder must point upwards.



Refit ejector



Push locking rolls outwards, and keep in that position. Lay ejector rod onto firing pin holder, and prevent from shifting.

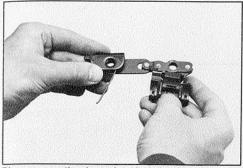


Push bolt housing over ejector rod until it bottoms. Then rotate bolt housing clockwise through 90°.



Force locking rolls inwards

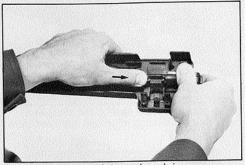
7.2 Cover - Parts of



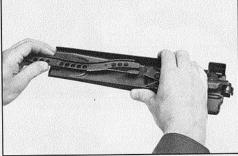
Plug connecting lever into belt feed slide



Lift up pressure plate spring, and simultaneously seat connecting lever and belt feed slide onto pivot pins



Depress pressure plate and push in direction of arrow



Push sliding roll of transport lever into fork of connecting lever
Then place onto pivot pin, with retaining spring compressed. Retaining spring must engage.

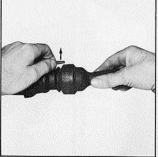
7.3 Barrel Guide Sleeve

7.4 Recoil Booster

7.5 Barrel



Refit barrel guide sleeve, reversing operation explained under 6.9



Refit recoil booster, reversing operation explained under 6.8



Refit barrel, reversing operation explained under 6.7

7.6 Cocking Slide



Seat cocking slide in guide rails



Swing back cocking handle, and push cocking slide forward

7.7 Bolt

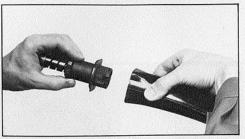


Force locking rolls inwards



Insert bolt, and push forward, at the same time actuating the trigger

7.8 Butt with Rear Cover and Recoil Spring



Push rear cover into butt



Rotate butt through 45°



Insert butt with rear cover and spring into weapon housing, and rotate clockwise through $90^{\circ}\,$

7.9 Cover with Feed Tray



Insert cover together with feed tray into hinge, with the multiple-disc brake engaging its groove

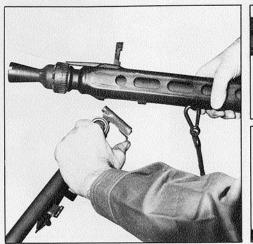


Insert hinge pin from left side, with flat side of knurled collar pointing downwards

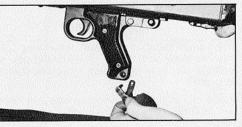


Push in hinge pin until it bottoms, and close cover

7.10 Bipod 7.11 Sling

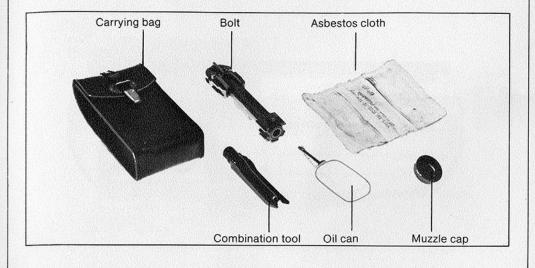




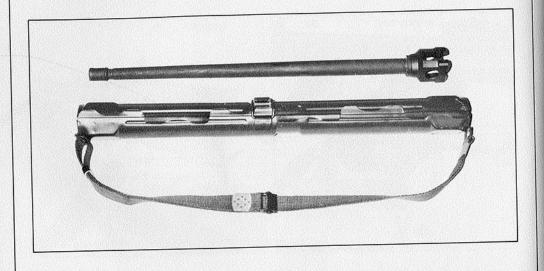


8. Accessories

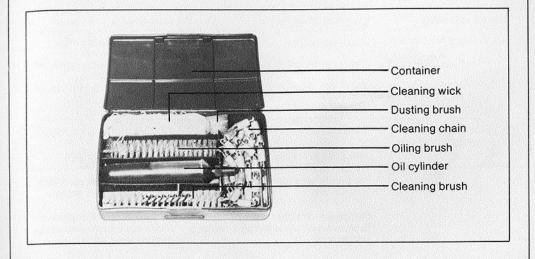
8.1 Carrying Bag with Contents



8.2 Container with Spare Barrel



8.3 Cleaning Kit

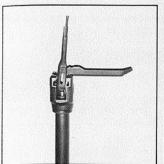


9. Trouble Shooting

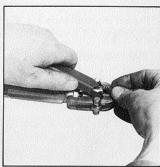
Nature of Trouble	Cause of Trouble	Remedy
9.1 Weapon fails to fire	Trigger on "Safe"	Push safety catch into "F" position
	Ammunition belt incorrectly loaded	Load ammunition belt with belt links upwards
	Defective ammunition	Reload, and actuate trigger again
	Defective bolt	Replace bolt
9.2 Non-intended interruption of fire	Defective ammunition	Reload, and actuate trigger again
	Belt jammed	Eliminate obstruction
	Defective bolt	Replace bolt
	Cartridge case ejection trouble	Remove jammed cartridge case, reload, and actuate trigger again
	Flange on cartridge case base broken away, or cartridge case torn into pieces	Change barrel. Remove car- tridge case fragment, using combination tool

10. Use of Combination Tool

- 10.1 Removal of Cartridge Cases
- 10.2 Removal of Cartridge Case Fragments
- 10.3 Replacing of Extractor







11. Maintenance and Cleaning

- Proper maintenance and cleaning are prerequisites for proper functioning.
- Weapon must not be heavily bumped onto ground.
- Close dust cover when transporting weapon.
- Do not lean weapon against walls in order to avoid entry of foreign particles into barrel.
- Make it a rule to clean the weapon after each use.
- Cleaning brush (with brass wire bristles) to be used for weapon cleaning oil only.

- Oil brush (with hair bristles) to be used for weapon lubricating oil only.
- Clean barrel each time before firing.
- Clean and oil barrel after each firing.
- After cleaning and re-assembly check weapon for free movement and proper functioning of all parts.

12. Firing Positions









13. Carrying Modes











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